

**Patent Claims:**

1. A method for operation of a flowmeter  
**characterized**  
5 in that an instantaneous signal-to-noise ratio determination is carried out automatically in the signal processing of the flow measurement device during the measurement phase, and in that the power supplied to the measurement system is adapted as a function of  
10 the result.
2. The method as claimed in claim 1,  
**characterized**  
in that the power which is supplied is adapted in  
15 inverse proportion to the signal-to-noise ratio.
3. The method as claimed in claim 1 or 2,  
**characterized**  
in that the instantaneous value of the signal-to-noise  
20 ratio and/or of the power which is supplied or a variable which is proportional to them or it is indicated.
4. The method as claimed in claim 3,  
25 **characterized**  
in that the magnetic field strength is adapted.
5. The method as claimed in one of the preceding  
claims,  
30 **characterized**  
in that, if the noise voltages are high, a visual and/or audible warning is generated.
6. The method as claimed in one of the preceding  
35 claims,  
**characterized**  
in that, if the flow rate is zero or virtually zero, the power supply is automatically switched off, or is

temporarily switched off.